



## SEQUENCE LISTING

<110> GAGE, FRED  
SUHR, STEVEN  
GIL, ELAD  
SENUT, MARIE-CLAUDE

<120> HORMONE RECEPTOR FUNCTIONAL DIMERS AND METHODS OF THEIR USE

<130> SALK2350

<140> 09/421,971  
<141> 1999-10-20

<160> 80

<170> PatentIn Ver. 3.3

<210> 1  
<211> 67  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic binding domain of the steroid/thyroid hormone superfamily of receptor

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<400> 1  
 Cys Xaa Xaa Cys Xaa Xaa Asp Xaa Ala Xaa Gly Xaa Tyr Xaa Xaa Xaa  
 1 5 10 15  
 Xaa Cys Xaa Xaa Cys Lys Xaa Phe Phe Xaa Arg Xaa Xaa Xaa Xaa Xaa  
 20 25 30  
 Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Lys  
 35 40 45  
 Xaa Xaa Arg Xaa Xaa Cys Xaa Xaa Cys Arg Xaa Xaa Lys Cys Xaa Xaa  
 50 55 60  
 Xaa Gly Met  
 65

<210> 2  
 <211> 5  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Chimeric protein  
 linker

<400> 2  
 Gly Gly Gly Gly Ser  
 1 5

<210> 3  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Chimeric protein  
 linker

<400> 3  
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 1 5 10

<210> 4  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Chimeric protein  
 linker

<400> 4

Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser  
1 5 10

<210> 5

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 5

Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Lys Gly  
1 5 10

<210> 6

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 6

Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Ser Gly Ser Thr  
1 5 10 15

Lys Gly

<210> 7

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 7

Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Lys Gly  
1 5 10

<210> 8

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 8

Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser Thr  
1 5 10 15

Lys Gly

<210> 9

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 9

Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Glu Phe  
1 5 10

<210> 10

<211> 5'

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 10

Ser Arg Ser Ser Gly  
1 5

<210> 11

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 11

Ser Gly Ser Ser Cys  
1 5

<210> 12

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Trypsin sensitive linker

<400> 12

Ala Met Gly Arg Ser Gly Gly Gly Cys Ala Gly Asn Arg Val Gly Ser  
1 5 10 15

Ser Leu Ser Cys Gly Gly Leu Asn Leu Gln Ala Met  
20 25

<210> 13

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chimeric protein linker

<400> 13

Ala Met Gly Gly Ser Ala Met  
1 5

<210> 14

<212> DNA

<211> 13

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleotide encoding SfiI recognition site

<220>

<221> modified\_base

<222> (5)..(9)

<223> a, t, c or g

<400> 14

ggccnnnnng gcc

13

<210> 15

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chimeric protein linker

<400> 15

Gly Pro Gly Gly Gly Ser Gly Gly Gly Ser Gly Thr  
1 5 10

<210> 16  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: GAL4 response element

<400> 16  
 Cys Gly Gly Ala Gly Gly Ala Cys Thr Gly Thr Cys Cys Thr Cys Cys  
           1                          5                          10                          15

Gly

<210> 17  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: SfiI compatible  
 oligonucleotide

<400> 17  
 Gly Pro Gly Gly Gly Ser Gly Gly Gly Ser Gly Thr  
           1                          5                          10

<210> 18  
 <211> 41  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: hRXR N-terminal  
 SfiI primer 5'

<400> 18  
 gtagaattcg gccaacaggg cccatggaca ccaaacattt c 41

<210> 19  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: hRXR N-terminal  
 SfiI primer 3'

<400> 19  
 gatgggggag ctcagggtgc 20

<210> 20  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: hRXR N-terminal  
 SfiI primer 5'

<400> 20  
 ggagagctcg aggcctactg ca 22

<210> 21  
 <211> 39  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: hRXR N-terminal  
 SfiI primer 3'

<400> 21  
 accatcgatt cagggccctg ttggcccgtg cggcgcctc 39

<210> 22  
 <211> 41  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: dmusp N-terminal  
 SfiI primer 5'

<400> 22  
 gtagaattcg gccaacaggg cccatggaca actgcgacca g 41

<210> 23  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: dmusp N-terminal  
 SfiI primer 3'

<400> 23  
 cagcacgtgg accattgaca 20

<210> 24  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence



<220>  
 <223> Description of Artificial Sequence: dmusp N-terminal  
           SfiI primer 5'

<400> 24  
 ggagagctct ttctcgagca gctg 24

<210> 25  
 <211> 49  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: dmusp N-terminal  
           SfiI primer 3'

<400> 25  
 accatcgatt cagggccctg ttggccctc cagtttcac gccaggccg 49

<210> 26  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: VP16 N-terminal  
           SfiI primer 5'

<400> 26  
 cataagctta tgggacagac actgatggga cggccc 36

<210> 27  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: VP16 N-terminal  
           SfiI primer 3'

<400> 27  
 cagagaccat gggccctgtt ggccccccac c 31

<210> 28  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: VP16 C-terminal  
           SfiI primer 5'

<400> 28  
 ttaccgctag ctccacca 18

<210> 29  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: VP16 C-terminal  
 SfiI primer 3'

<400> 29  
 gtagatatca gggccctggt ggcccagtcg tcgagt 36

<210> 30  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Annealing two  
 linker encoding oligonucleotides 5'

<400> 30  
 gggccaggag gtggctccgg gggaggttca ggcaca 36

<210> 31  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Annealing two  
 linker encoding oligonucleotides 3'

<400> 31  
 gcctgaacct cccccggagc cacctcctgg ccctgt 36

<210> 32  
 <211> 47  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: F-domain deleted  
 ecdysone receptor fragment polylinker 5'

<400> 32  
 aagcttgaga gatctgggac ggcgcccccg gggctagcgg gccaca 47

<210> 33  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Bgl II peptide  
sequence

<400> 33

Ile Trp Asp Gly Ala Pro Gly Ala Ser  
1 5

<210> 34

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 34

Ala Met Gly Gly Ser Gly Gly Ser Ala Met  
1 5 10

<210> 35

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 35

Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Ala Met  
1 5 10

<210> 36

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 36

Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Ala Met  
1 5 10 15

<210> 37

<211> 19

<212> PRT

<213> Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Chimeric protein  
linker

&lt;400&gt; 37

Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly  
1 5 10 15

Ser Ala Met

&lt;210&gt; 38

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Chimeric protein  
linker

&lt;400&gt; 38

Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly  
1 5 10 15Ser Gly Gly Ser Ala Met  
20

&lt;210&gt; 39

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Chimeric protein  
linker

&lt;400&gt; 39

Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly  
1 5 10 15Ser Gly Gly Ser Gly Gly Ser Ala Met  
20 25

&lt;210&gt; 40

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Chimeric protein  
linker

&lt;400&gt; 40

Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly  
1 5 10 15

Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Ala Met  
                   20                  25

<210> 41  
 <211> 31  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Chimeric protein  
           linker

<400> 41  
 Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly  
   1                  5                  10                  15  
 Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Ala Met  
                   20                  25                  30

<210> 42  
 <211> 34  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Chimeric protein  
           linker

<400> 42  
 Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly  
   1                  5                  10                  15  
 Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser  
                   20                  25                  30

Ala Met

<210> 43  
 <211> 37  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Chimeric protein  
           linker

<400> 43  
 Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly  
   1                  5                  10                  15  
 Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser  
                   20                  25                  30

Gly Gly Ser Ala Met  
35

<210> 44  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 44  
Ala Met Gly Gly Gly Ser Ala Met  
1 5

<210> 45  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 45  
Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Ala Met  
1 5 10

<210> 46  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 46  
Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Met  
1 5 10 15

<210> 47  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 47  
Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
1 5 10 15

Gly Ser Ala Met  
20

<210> 48  
<211> 24  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 48  
Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
1 5 10 15

Gly Ser Gly Gly Gly Ser Ala Met  
20

<210> 49  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 49  
Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
1 5 10 15

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Met  
20 25

<210> 50  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 50  
Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
1 5 10 15

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Met  
20 25 30

<210> 51  
 <211> 36  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Chimeric protein  
 linker

<400> 51  
 Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
 1 5 10 15  
 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
 20 25 30  
 Gly Ser Ala Met  
 35

<210> 52  
 <211> 40  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Chimeric protein  
 linker

<400> 52  
 Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
 1 5 10 15  
 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
 20 25 30  
 Gly Ser Gly Gly Gly Ser Ala Met  
 35 40

<210> 53  
 <211> 44  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Chimeric protein  
 linker

<400> 53  
 Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
 1 5 10 15  
 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
 20 25 30  
 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Met  
 35 40



<210> 54  
 <211> 48  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Chimeric protein  
 linker

<400> 54  
 Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
           1                          5                          10                          15  
 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
                           20                          25                          30  
 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Met  
                           35                          40                          45

<210> 55  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Chimeric protein  
 linker

<400> 55  
 Ala Met Gly Gly Gly Gly Ser Ala Met  
           1                          5

<210> 56  
 <211> 14  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Chimeric protein  
 linker

<400> 56  
 Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Met  
           1                          5                          10

<210> 57  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Chimeric protein  
 linker

&lt;400&gt; 57

Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 1 5 10 15

Ser Ala Met

&lt;210&gt; 58

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Chimeric protein linker

&lt;400&gt; 58

Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 1 5 10 15

Ser Gly Gly Gly Gly Ser Ala Met  
 20

&lt;210&gt; 59

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Chimeric protein linker

&lt;400&gt; 59

Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 1 5 10 15

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Met  
 20 25

&lt;210&gt; 60

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Chimeric protein linker

&lt;400&gt; 60

Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 1 5 10 15

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 20 25 30

Ala Met

<210> 61  
 <211> 39  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Chimeric protein  
 linker

<400> 61  
 Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
           1                  5                  10                  15  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
                   20                  25                  30  
 Gly Gly Gly Gly Ser Ala Met  
                   35

<210> 62  
 <211> 44  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Chimeric protein  
 linker

<400> 62  
 Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
           1                  5                  10                  15  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
                   20                  25                  30  
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Met  
                   35                  40

<210> 63  
 <211> 49  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Chimeric protein  
 linker

<400> 63  
 Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
           1                  5                  10                  15

20

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
20 25 30

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala  
35 40 45

Met

<210> 64

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 64

Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
1 5 10 15

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
20 25 30

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
35 40 45

Gly Gly Gly Ser Ala Met  
50

<210> 65

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chimeric protein  
linker

<400> 65

Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
1 5 10 15

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
20 25 30

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
35 40 45

Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Met  
50 55

<210> 66  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chimeric protein  
 linker

<400> 66

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 1 5 10 15

<210> 67

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chimeric protein  
 linker

<400> 67

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 1 5 10 15

Gly Gly Gly Ser  
 20

<210> 68

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chimeric protein  
 linker

<400> 68

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 20 25

<210> 69

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Chimeric protein  
 linker

&lt;400&gt; 69

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 20 25 30

&lt;210&gt; 70

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Chimeric protein  
 linker

&lt;400&gt; 70

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly  
 20 25 30

Gly Gly Ser  
 35

&lt;210&gt; 71

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Chimeric protein  
 linker

&lt;400&gt; 71

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly  
 20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser  
 35 40

&lt;210&gt; 72

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Chimeric protein  
 linker

&lt;400&gt; 72

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly  
 20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 35 40 45

&lt;210&gt; 73

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Chimeric protein  
 linker

&lt;400&gt; 73

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly  
 20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly  
 35 40 45

Gly Ser  
 50

&lt;210&gt; 74

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Chimeric protein  
 linker

&lt;400&gt; 74

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly  
 20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly  
 35 40 45

Gly Ser Gly Gly Gly Gly Ser  
 50 55

<210> 75  
 <211> 60  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Chimeric protein  
 linker

<400> 75  
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
     1                    5                    10                    15  
 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly  
                     20                    25                    30  
 Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly  
                     35                    40                    45  
 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
     50                    55                    60

<210> 76  
 <211> 12  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 76  
 acgactgcat ag

12

<210> 77  
 <211> 12  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<220>  
 <221> CDS  
 <222> (1)..(12)

<400> 77  
 atg gac acc aaa  
 Met Asp Thr Lys  
     1

12



<210> 78  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<220>  
 <221> CDS  
 <222> (1)..(33)

<400> 78  
 acg act ggg cca aca ggg ccc atg gac acc aaa  
 Thr Thr Gly Pro Thr Gly Pro Met Asp Thr Lys  
   1                  5                  10

33

<210> 79  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 79  
 Met Asp Thr Lys  
   1

<210> 80  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 80  
 Thr Thr Gly Pro Thr Gly Pro Met Asp Thr Lys  
   1                  5                  10